## IN THE CLAIMS

Please amend the claims as follows:

- 1. (currently amended) A transmitting device for transmitting a digital information signal via a transmission medium, including:
- input means for receiving the digital information signal,
- adaptive prediction filter means adapted to derive a prediction signal from the digital information signal in dependence on an array of prediction filter coefficients,
- first signal combination means for combining the digital information signal and said prediction signal so as to obtain a residual signal,
- encoding means for encoding said residual signal so as to obtain an encoded signal,
- coefficient generator means for generating an array of filter coefficients A[i] in response to the digital information signal, i being an integer for which it holds that  $0 \le i < p$ , where p is a variable.
- output means for supplying the encoded signal to an output terminal for transmission via a the transmission medium, and
- smoothing means for smoothing the array of filter coefficients A[i] so as to obtain the array of prediction filter coefficients for supply to the adaptive prediction filter means.
- 2. (previously presented) The transmitting device of claim 1, characterized in that the smoothing means includes low-pass filtering means for low-pass filtering the array of filter coefficients so as to obtain the prediction filter coefficients.
- 3. (currently amended) The transmitting device of claim 2, characterized in that the low-pass filtering means are in the form of a comprise an FIR filter.

- 4. (currently amended) The transmitting device of claim 2, characterized in that the low-pass filtering means are in the form of comprise an IIR filter.
- 5. (previously presented) The transmitting device of claim 2, characterized in that the low pass filtering means is adapted to perform the following equations to obtain the coefficients:

 $C_{out}[0] = C_{in}[0],$ 

 $C_{out}[i] = 0.25*C_{in}[i+1] + 0.5*C_{in}[i] + 0.25*C_{out}[i-1]$ , whereby i is an integer and  $1 \le i \le n-2$ ,

 $C_{out}[n-1] = C_{in}[n-1],$ 

 $C_{in}[x]$  being coefficient number x before smoothing, and  $C_{out}[x]$  being coefficient number x after smoothing.

- 6. (currently amended) The transmitting device of any one of the preceding claims, in the form of comprises an arrangement for writing the encoded signal on a record carrier.
- 7. (currently amended) The method of transmitting a digital information signal via a transmission medium, comprising:
- receiving the digital information signal,
- deriving a prediction signal from the digital information signal in dependence on an array of prediction filter coefficients,
- combining the digital information signal and said prediction signal so as to obtain a residual signal,
- encoding said residual signal so as to obtain an encoded signal,
- generating an array of filter coefficients A[i] in response to the digital information signal, i being an integer for which it holds that  $0 \le i < p$ , where p is a variable,

- supplying the encoded signal to an output terminal for transmission via a the transmission medium, and
- smoothing the array of filter coefficients A[i] so as to obtain the array of prediction filter coefficients.

## 8. (canceled)

## 9. (currently amended) The method of claim 7 wherein:

the smoothing includes low-pass filtering the array of filter coefficients A[i] so as to obtain the prediction filter coefficients;

the low-pass filtering is selected between one or more of: FIR filtering and IIR filtering;

the low pass filtering applies the following equations to obtain the prediction filter coefficients: Cout[0] = Cin[0]; Cout[i] = 0.25\*Cin[i+1] + 0.5\*Cin[i] + 0.25\*Cout[i-1], whereby i is an integer and  $\frac{1 + 1 + 1 + 1}{1 + 1 + 1} = \frac{1 \le i \le n-2}{1 + 1 + 1}$ ; Cout[n-1] = Cin[n-1], Cin[x] being coefficient number x before smoothing., and Cout[x] being coefficient number x after smoothing;

supplying the encoded signal includes writing the encoded signal on a record carrier.

## 10. (previously presented) The receiver of claim 8, wherein:

the smoothing means includes low-pass filtering means for lowpass filtering the array of filter coefficients so as to obtain the prediction filter coefficients;

the low-pass filtering means are selected from one or more of: a FIR filter and an IIR filter;

the low pass filtering means is adapted to apply the following equations to obtain the prediction filter coefficients:  $C_{out}[0] = C_{in}[0]$ ;  $C_{out}[i] = 0.25*C_{in}[i+1] + 0.5*C_{in}[i] + 0.25*C_{out}[i-1]$ , whereby i is an integer and  $1 \le i \le n-2$ ;  $C_{out}[n-1] = C_{in}[n-1]$ ,  $C_{in}[x]$  being

coefficient number x before smoothing, and Cout[x] being coefficient number x after smoothing; and

the output means includes an arrangement for writing the encoded signal on a record carrier.